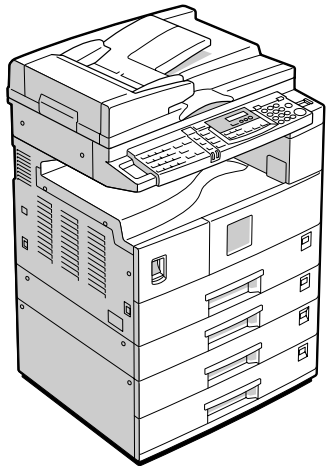
PRINTER Controller Type 1018

Operating Instructions

Printer Reference 1 (option)
Printer Reference 2 (option)



Read this manual carefully before you use this product and keep it handy for future reference.
For safety, please follow the instructions in this manual.

Introduction

This manual contains detailed instructions on the operation and maintenance of this machine. To get maximum versatility from this machine all operators should carefully read and follow the instructions in this manual.

Please keep this manual in a handy place near the machine.

Please read the Safety Information in the “Copy Reference” before using this machine. It contains important information related to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS.

Important

Parts of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

Trademarks

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Ethernet is a registered trademark of Xerox Corporation.

Adobe, PostScript, Acrobat and PageMaker are registered trademarks of Adobe System Incorporated.

PCL is a registered trademark of Hewlett-Packard Company.

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights in those marks.

Warning:

Use of controls or adjustment or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

Notes:

Some illustrations might be slightly different from your machine.

Certain options might not be available in some countries. For details, please contact your local dealer.

Manuals for This Machine

Manuals for This Machine

There are ten manuals that separately describe the operational procedures for the operation and maintenance of the machine.

To enhance safe and efficient operation of the machine, all users should read and follow the instructions contained in the following manuals.

❖ **Copy Reference**
Describes the procedures and functions for using this machine as a copier.

❖ **System Settings**
Describes the system settings of this machine.

❖ **Facsimile Reference <Basic Features>**
Describes the procedures and most frequently used functions for using this machine as a facsimile.

❖ **Facsimile Reference <Advanced Features>**
Describes the procedures and more advanced functions for using this machine as a facsimile. And also explains settings for key operators.

❖ **Printer Reference 1**
Describes the system settings, procedures and functions for using this machine as a printer. (this manual)

❖ **Printer Reference 2**
Describes the procedures and provides necessary information about using this machine as a printer. This manual is included as a PDF file on the CD-ROM labeled "Operating Instructions for Printer".

❖ **Network Interface Board Quick Configuration Guide**
Describes the procedures and provides necessary information about setting up and using the printer under the network environment. This manual is included as a PDF file on the CD-ROM labeled "Operating Instructions for Printer".

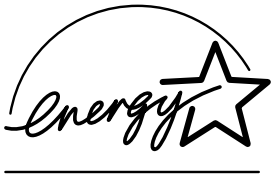
❖ **Type 1018 PostScript level2 Compatible Kit Operating Instructions Supplement**
Describes the functions of Printer Utility for Mac. This manual is included as a PDF file on the CD-ROM labeled "Operating Instructions for Printer".

❖ **UNIX Supplement**
Provides information about setting up and using the printer in a UNIX environment. This manual is included as a PDF file on the CD-ROM labeled "Operating Instructions for Printer".

❖ **Network Interface Board Type 1018 Owner's Manual**
Describes the procedures and provides necessary information about setting up and using the printer under the network environment. This manual is included as a PDF file on the CD-ROM labeled "Print Server Software and Documentation" which comes with optional Network Interface Board Type 1018.

ENERGY STAR Program

ENERGY STAR®



As an ENERGY STAR Partner, we have determined that this machine model meets the ENERGY STAR Guidelines for energy efficiency.

The ENERGY STAR Guidelines intend to establish an international energy-saving system for developing and introducing energy-efficient office equipment to deal with environmental issues, such as global warming.

When a product meets the ENERGY STAR Guidelines for energy efficiency, the Partner shall place the ENERGY STAR logo onto the machine model.

This product was designed to reduce the environmental impact associated with office equipment by means of energy-saving features, such as Low-power mode.

- Low Power mode
  This product automatically lowers its power consumption 15 minutes after the last copy or print job has finished. Printing is still possible in Low Power mode, but if you wish to make copies press the **【Operation Switch】** key first.
  For how to change the default interval that the machine waits before entering Low Power mode, see "Energy Saver Timer" in the "System Settings".
- Sleep mode (Printer and facsimile installed)
  If the printer or facsimile features are installed, this product automatically lowers its power consumption even further 30 minutes after the last copy or print job has finished. Printing and facsimile reception is still possible in Sleep mode, but if you wish to make copies press the operation switch first.
  For how to change the default interval that the machine waits before entering Sleep mode, see "Auto Off Timer" in the "System Settings".
- Auto Off mode (Copier only)
  If the neither the printer feature nor facsimile feature is installed, this product automatically turns itself off 30 minutes after the last copy or print job has finished. If you wish to make copies when the machine is in Auto Off mode, press the operation switch.
  For how to change the default interval that the machine waits before entering Auto Off mode, see "Auto Off Timer" in the "System Settings".

❖ Specification

		Copy feature	Printer or Facsimile installed
Low Power mode	Power consumption	70 Wh	80 Wh
	Default Time	15 minutes	15 minutes
	Recovery Time	Less than 20 seconds	Less than 20 seconds
Sleep Mode	Power consumption	-	70 Wh
	Default Time	-	30 minutes
	Recovery Time	-	20 seconds
Auto Off mode	Power consumption	Less than 1 Wh	-
	Default Time	30 minutes	-
	Recovery Time	20 seconds	-

Recycled Paper

In accordance with the ENERGY STAR Program, we recommend use of recycled paper which is environment friendly.Please contact your sales representative for recommended paper.

How to Read This Manual

Symbols

In this manual, the following symbols are used:

⚠ ***WARNING:***
This symbol indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

⚠ ***CAUTION:***
This symbol indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

* The statements above are notes for your safety.

Important
If this instruction is not followed, paper might be misfed, originals might be damaged, or data might be lost. Be sure to read this.

Preparation
This symbol indicates the prior knowledge or preparations required before operating.

Note
This symbol indicates precautions for operation, or actions to take after misoperation.

Limitation
This symbol indicates numerical limits, functions that cannot be used together, or conditions in which a particular function cannot be used.

Reference
This symbol indicates a reference.

[ ]
Keys that appear on the machine's panel display.
Keys and buttons that appear on the computer's display.

【 】
Keys built into the machine's operation panel.
Keys on the computer's keyboard.

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See 2nd part of book for Printer Reference 2 section

1. Getting Started

Features of This Machine

This machine is designed especially for office workgroups, both for shared usage within a network environment, and for one-to-one usage by being connected directly to the computer.

❖ Time Saving

Superior features save time on print tasks.
Continuous Printing Speed : 15 ppm, 18 ppm.
A4 ⬓, 8 1/2" × 11" ⬓, maximum printing speed from a standard paper tray.

❖ Compact Body

Its compact body requires minimum space to place it on your desk side.

❖ Network Connectivity

This printer is network ready with optional Network Interface Board Type 1018.

❖ Major Specifications

	15 ppm model	18 ppm model
Printing Speed	15 pages per minute (A4⬓, 8 1/2" × 11"⬓)	18 pages per minute (A4⬓, 8 1/2" × 11"⬓)
Maximum Print Quality	True 600 × 600 dpi resolutions (PCL 6, 5e, PS2 (option) *1)	
Printer Language	PCL 6, PCL 5e, PS2	
Maximum Input Paper Size	Paper Tray and Bypass Tray: A3⬓, 11" × 17"⬓	
Standard Memory Size	16MB	
Maximum Memory Size with Optional Memory	144MB	

*1 PostScript level2 Compatible

Note

❒ The "⬓" symbol means the long-edge feed direction.

❒ The "⬓" symbol means the short-edge feed direction.

Printer Drivers for This Machine

Printing requires installation of a printer driver for your operating system. The following drivers are included on the CD-ROM that comes with this machine.

Printer Language / Operating system	PCL 6	PCL 5e	PS2
Windows 95 *1	√	√	√
Windows 98 *2	√	√	√
Windows Me *3	√	√	√
Windows 2000 *4	√	√	√
Windows NT 4.0 *5	√	√	√ *7
Mac OS *6			√ *8 *9

*1 Microsoft Windows 95 operating system
*2 Microsoft Windows 98 operating system
*3 Microsoft Windows Millennium Edition
*4 Microsoft Windows 2000 Professional
Microsoft Windows 2000 Server
*5 Microsoft Windows NT Server operating system version 4.0, Microsoft Windows NT Workstation operating system version 4.0 in a computer using x86 processors.
*6 Required version is 8 or 9 operating system.
*7 Requires Service Pack 4 or later.
*8 PPD (PostScript Printer Description) files are included on the CD-ROM.
*9 You can use the LaserWriter printer driver that comes with a Macintosh. Use the appropriate printer driver that comes with the Macintosh operating system you are using. See the documentation that comes with the Macintosh for more information about the LaserWriter functions.

❖ PCL printer drivers

Printer drivers allow the computer to communicate with the printer via a printer language. Two kinds of PCL printer drivers, PCL 6 and PCL 5e, are provided with this printer. We recommend PCL 6 as your first choice.

Note

❒ Some of your applications might require the installation of the PCL 5e printer driver. In this case, you can install PCL 5e in addition to PCL 6.

⇒ P.18 *"Windows 95/98/Me - Installing the PCL 6/5e Printer Driver"*
⇒ P.19 *"Windows 2000 - Installing the PCL 6/5e Printer Driver"*
⇒ P.1 *"Avertissement:"*

❖ PostScript Printer Description (PPD) files for Windows

The printer specific functions can be used by installing the PPD file specific for the printer.

⇒ P.23 *"Windows 95/98/Me - Installing the PostScript Printer Driver"*
⇒ P.25 *"Windows 2000 - Installing the PostScript Printer Driver"*
⇒ P.27 *"Windows NT 4.0 - Installing the PostScript Printer Driver"*

❖ **PostScript Printer Description (PPD) files for a Macintosh**

PPD files, in combination with the LaserWriter driver, allow the computer to communicate with the printer. The printer specific functions can be used by installing a PPD file. You can use the LaserWriter printer driver that comes with the Macintosh. Use the appropriate printer driver that comes with the Macintosh operating system you are using. See the documentation that comes with the Macintosh for more information about the LaserWriter functions.
⇒ P.30 *"Macintosh"*

Software and Utilities Included on the CD-ROM

❖ **Agfa Font Manager**

Helps you to install new screen fonts, or organize and manage fonts already installed on the system. This manual is provided as a PDF file on the CD-ROM labeled "Printer Drivers and Utilities".

❖ **SmartNetMonitor for Admin**

SmartNetMonitor for Admin is software that uses the TCP/IP and IPX/SPX protocols to monitor the printers in a network. It can monitor multiple network printers having IP addresses. We recommend network administrators to use this software.

Reference

For more information about SmartNetMonitor for Admin, see the SmartNetMonitor for Admin online Help file.

❖ **SmartNetMonitor for Client**

SmartNetMonitor for Client is software equipped with the following functions. We recommend all users of this printer to install this software.

- Provides the function to print in a Peer-to-Peer network.
- Uses the TCP/IP and IPX/SPX protocols to monitor the status of devices in a network constantly.

Reference

For more information about SmartNetMonitor for Client, see the SmartNetMonitor for Client online Help file.

❖ **Acrobat Reader**

A utility that allows you to read PDF (Portable Document Format). This manual is provided as a PDF file on the CD-ROM labeled "Operating Instructions for Printer".

Note

❒ Documentation about using the printer is included on the CD-ROM in PDF format. See Acrobat Reader online Help for more information about using Acrobat Reader.

❖ **UNIX Install Shell**

The installation shell script helps with the setup process. The installation shell script automates some of the tasks in configuring /etc/hosts, /etc/printcap, and in creating the spool directory for BSD UNIX, and in running lpadmin command for System V UNIX.

Reference

For more information about UNIX Install Shell, see the "UNIX Supplement".

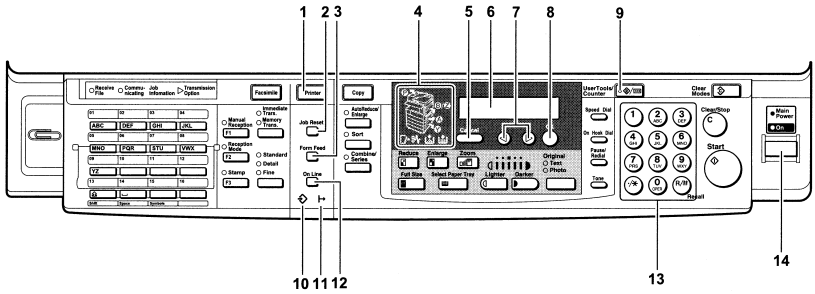
Important

❒ If you upgrade to Windows 2000 from Windows 95/98/Me or Windows NT 4.0, the software and utilities must be uninstalled prior to installing Windows 2000. Then reinstall them in a Windows 2000 environment.

Guide to This Machine

Operation Panel

This panel display is for the installed Printer and Facsimile feature.



1. Printer Mode key

Press to use printer functions.

2. [Job Reset] key

When the printer is online, press this key to cancel any ongoing print job.

3. [Form Feed] key

If Load Paper [Paper Size], Load Tray [Paper Size] or Load Bypass tray [Paper Size] error occurs, press this key to print all the data left in the printer's input buffer.

Note

❒ This function is not available when the printer is receiving data from a computer or printing.

4. Indicators

These indicators show errors or the status of the machine.

5. [Cancel] key

Press to cancel an operation or return to the previous display.

6. Display panel

Shows operation status, error messages, and function menus.

7. ◁▷ keys

Press to select an item on the panel display.

8. [OK] key

9. [User Tools/Counter] key

Press to change the default settings and conditions to meet your requirements.

10. Data In indicator

Blinks while the printer is receiving data from a computer or printing.

Is on if there is data to be printed.

11. Online indicator

Tells you whether the printer is online or offline.

Is on while the printer is online.

12. [Online/Offline] key

Press this key to switch the printer between online and offline.

13. Number keys

Use to enter the desired number of copies and data for selected modes.

14. Operation switch

Press this switch to turn the power on (the **On** indicator goes on). To turn the power off, press this switch again (the **On** indicator goes off).

Panel Display

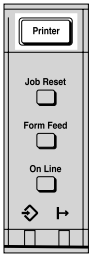
The panel display shows operational status, error messages, and function menus.

Important

❒ Do not apply a strong shock or force of more than about 30N (about 3kgf) to the panel display or it may be damaged.

Online and Offline

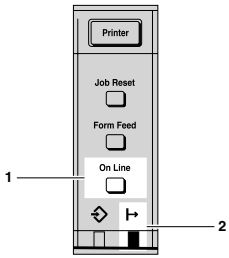
Press **【Printer Mode】** on the operation panel.



The “Ready” message appears on the panel display.

Online

When the printer is online, it can receive data from the computer.



1. 【Online/Offline】key

Press this key to switch the printer online.

The "Ready" message appears on the panel display.

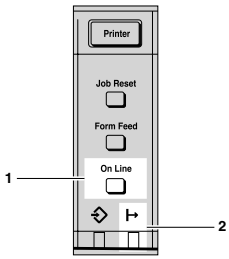
Ready

2. Online indicator

Is on while the printer is online.

Offline

When the printer is offline, it cannot receive data from the computer.



1. 【Online/Offline】key

Press this key to switch the printer offline.

The "Offline" message appears on the panel display.

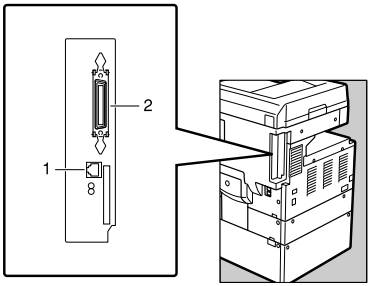
Offline

2. Online indicator

Is off while the printer is offline.

Connecting the Machine

Confirm that the shape and the position of the connector are as shown in the illustration.



1. **10BASE-T/100BASE-TX (option)** *2.* **Parallel Port**

Requirements

Requirements

Before using this machine, confirm that all the environmental and electrical requirements have been met. Connect the machine to the host computer using the parallel port, optional Network Interface Board Type 1018, or both.

Confirm that all the cables, connectors, and electrical outlets necessary to attach the machine to the host computer or network are present.

Important

❒ The interface cable is not supplied in the box. It is your responsibility to provide the interface cable appropriate for the computer that you are using.

Reference

For more information about using the parallel port, see P.9 *"Parallel cable requirements"*.

For more information about using a network, see P.9 *"Network cable requirements"*.

Network cable requirements

Optional Network Interface Board Type 1018 can be installed to allow direct connection to network.

The optional Network Interface Board supports 10BASE-T or 100BASE-TX connections.

You can use the machine in the following network environments:

- Using the appropriate network management software and printer driver.
- Attaching the machine to a network (computer) set up as a server.

Client	Windows 95, 98, Me, Windows 2000, Windows NT 4.0, *1, Mac OS 8 or 9 (Type 1018 PostScript level2 Compatible Kit is required)
Driver	PCL 6/5e, PS2
File Server	NetWare 3.x, NetWare 4.x, NetWare 5.x
Protocol	TCP/IP, IPX/SPX, AppleTalk

*1 Under Windows NT 4.0, only × 86 CPU is supported.

In a mixed network environment, the protocol switches automatically.

Reference

For more information about resolving network connection problems, see P.13 *"Configuring the Printer for the Network"*.

Note

❒ Consult your network administrator before connecting the machine to a network.

❒ Be sure to use the interface cable with ferrite core for the connection to the host computer (and/or HUB) in order to meet FCC and EMC Directive 89/336/EEC emission guidelines.

Parallel cable requirements

Connect the machine to the host computer using a parallel port. This machine does not provide the parallel cable to connect the machine to the host computer.

The machine's parallel interface is a standard bidirectional interface. It requires a standard 36-pin parallel cable compliant with IEEE 1284 and a parallel port available on the host computer.

Note

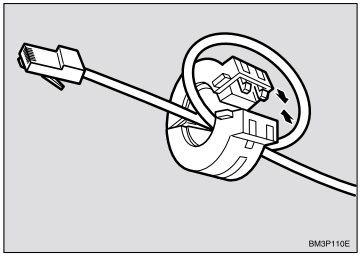
❒ Do not use a parallel cable that is longer than 3 meters (10 feet).

Connecting the Network Interface Cable to the Network

Connect the machine to the network using optional Network Interface Board Type 1018.

Follow these steps to connect the machine.

1. **Confirm that you have the correct cable.**
2. **Confirm that the machine is turned off.**
3. **Loop the network cable. The loop should be about 15cm (6″) from the end of the cable on the end closest to the printer.**
4. **Attach the ferrite core to the loop.**



5. **Attach the network cable to the 10BASE-T/100BASE-TX port on the machine.**

Reference

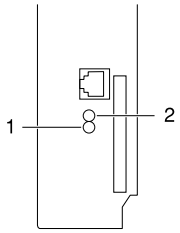
See P.8 *"Connecting the Machine"* to confirm the position of the 10BASE-T/100BASE-TX port.

Note

❒ Confirm that the cable is connected to the 10BASE-T/100BASE-TX port.

6. **Connect the other end of the cable into the network.**

Indicators on the optional Network Interface Board



1. Indicator (green)

Is on when the power on the machine and on while the machine is in a network environment.

2. Indicator (orange)

Is blinking while the machine is receiving print jobs over the network environment and off when the print jobs have been sent to the controller.

Status page

The status page of Network Interface Board will be automatically printed in the following cases:

- when the printer is turned on.
- when Network Interface Board is reset.

This feature can be disabled with NIB Setup Tool which is included in the SmartNetMonitor for Admin program folder.

To disable this feature, check **[Property Sheet]** in the "NIB Setup Tool" screen. Click **[Detailed...]** in the **[General]** tab and remove the check from the box for "Print configuration page on start up".

Connecting the Machine to the Host Using the Parallel Interface Cable

Connect the machine to the host computer using a parallel interface cable compliant with IEEE 1284 (supplied by you).

Follow these steps to connect the machine to the host computer.

1. **Confirm that you have the correct cable.**
2. **Confirm that both the machine and the host computer are turned off.**
3. **Plug the 36-pin end of the parallel cable into the parallel port at the right side of the back cover of the machine.**

   Reference

   See P.8 *"Connecting the Machine"* to confirm the position of the parallel port.

4. **Squeeze the wire clips on each side of the connector together until they snap into place. The clips hold the cable securely in place.**
5. **Plug the other end of the parallel cable into the computer's parallel port.**

2. Configuring the Printer for the Network

Configuring the Printer for the Network with the Operation Panel

After installing the optional Network Interface Board, configure it for the network using the printer's operation panel.

If you use TCP/IP, you should assign the IP Address and Subnet Mask. You can also set the Gateway Address using the printer's operation panel.

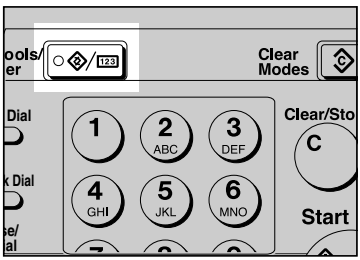
Note

❒ When you turn the machine's power switch on, it may take a few minutes to initialize the optional Network Interface Board. If the "2. Network Setup" in the following step 4. is grayed out, wait for a few minutes.

Reference

For more information about using this machine as a network printer, see the "Quick Configuration Guide" which is included as a PDF file on the CD-ROM labeled "Operating Instructions for Printer".

1 **Press [User Tools/Counter].**



2 **Press the ◀ or ▶ key until the following message appears on the panel display.**

```
User Tools:
5.Printer Features   ◆▶
```

3 **Press [OK].**

The following screen appears on the panel display.

```
Printer Features:
1.Job Control        ◆▶
```

4 **Press the ◀ or ▶ key until the following message appears on the panel display.**

```
Printer Features:
2.Network Setup      ◆▶
```

5 **Press [OK].**

The following screen appears on the panel display.

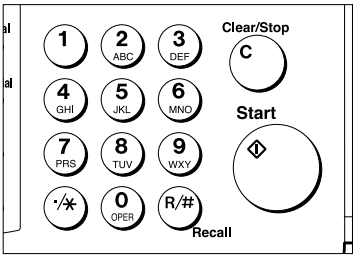
```
Network Setup:
1.IP Address         ◆▶
```

6 **Press [OK].**

The following screen appears on the panel display.

```
IP Address:          ◆▶/OK
[  0.000.000.000]
```

7 Set the IP Address with the ◁ or ▷key and the number keys.



Note

❒ To get the IP Address for the printer, contact your network administrator.

① Type the first three digits of the IP Address, and the pointer moves to the next entry field automatically.

Note

❒ ▷ key : Press to go to the next entry field.

❒ ◁ key : Press to go back to the previous entry field.

The following screen appears on the panel display.

```
IP Address:          ◆▶/OK
[192.  0.000.000]
```

Repeat these procedures to complete the IP Address setting.

Note

❒ 【OK】: Press to set the new settings and return to the previous menu.

❒ 【Cancel】: Press to return to the previous menu without changing any data.

② Press【OK】.
The following screen appears on the panel display for two seconds.

```
Programmed
```

The setting of the IP Address is completed. Then return to the previous screen.

8 Press the ◁ or ▷key to display "Subnet Mask"and "Gateway Address", then set "Subnet Mask" and "Gateway Address" following the same procedure for setting the IP Address, if necessary.

Address

❖ **Subnet Mask**

A number used to mathematically "mask" or hide an IP Address on the network by eliminating those parts of the address that are alike for all the machines on the network.

❖ **Gateway Address**

A gateway is a connection or interchange point that connects two networks. A gateway address is for the router or host computer used as a gateway.

Note

❒ To get the addresses, contact your network administrator.

Reference

For more information about network settings, see the "Quick Configuration Guide" which is provided as a PDF file on the CD-ROM labeled "Printer Drivers and Utilities".

3. Installing the Printer Driver and Software

This manual assumes that you are familiar with general Windows procedures and practices. If you are not, see the documentation that comes with Windows for details.

Installation Method

The following table shows how to install the printer drivers and software.

	Auto Run [*1]			Add Printer Wizard
	Typical [*2]	Network [*3]	Custom [*4]	
PCL 6 printer driver	❍	❍	❍	
PCL 5e printer driver			❍	
PostScript printer driver				❍
Agfa Font Manager			❍	
SmartNetMonitor for Admin			❍	
SmartNetMonitor for Client		❍	❍	

[*1] Available operating systems are as follows: Windows 95/98/Me, Windows 2000, Windows NT 4.0
[*2] Recommended for most users.
[*3] Recommended for network printing users.
[*4] Recommended for expert users.

Reference

For more information about the printer drivers, see P.2 *"Printer Drivers for This Machine"*. For installing the printer drivers, see P.18 *"Installing the PCL 6/ 5e Printer Driver"* or P.23 *"Installing the PostScript Printer Driver"*.

For more information about the software and utilities, see P.3 *"Software and Utilities Included on the CD-ROM"*.

Important

❒ Before starting this installation, close all documents and applications. In a network environment, confirm that users who are logged on are disconnected. Be sure to do this when it will create the least interference with other users.

❒ After installing a printer driver, you must restart the computer.

Note

- If the "plug and play" function is started, click **[Cancel]** in the **[New Hardware Found]**, **[Device Driver Wizard]** or **[Found New Hardware Wizard]** dialog box, and then insert the CD-ROM. The **[New Hardware Found]**, **[Device Driver Wizard]** or **[Found New Hardware Wizard]** dialog box appears depending on the system version of the Windows 95/98/Me, Windows 2000.
- The appropriate language name is used for the CD-ROM folder: ENGLISH (English), DEUTSCH (German), FRANCAIS (French), ITALIANO (Italian), ESPANOL (Spanish), NEDRLNDS (Dutch), NORSK (Norwegian), DANSK (Danish), SVENSKA (Swedish), POLSKI (Polish), PORTUGUS (Portuguese), SUOMI (Finnish), MAGYAR (Hungarian), CESKY (Czech)

Installing by Auto Run

You can install the PCL printer driver and software, and set them up easily by using Auto Run.

Follow these steps to install the PCL printer driver and software on Windows 95/98/Me, Windows 2000, Windows NT 4.0.

Limitation

❒ If your system is Windows 2000 or Windows NT 4.0, installing a printer driver by Auto Run requires Administrators permission. When you install a printer driver by Auto Run, log on using an account that has Administrators permission.

Note

❒ Auto Run might not automatically work with certain OS settings. In this case, launch "INSTTOOL.EXE" located on the CD-ROM root directory.

❒ If you want to cancel Auto Run, hold down the 【SHIFT】 key (when your system is Windows 2000, hold down the left 【SHIFT】 key) while inserting the CD-ROM. Keep the 【SHIFT】 key held down until the computer has finished accessing the CD-ROM.

1 Close all applications that are running.

2 Insert the CD-ROM into the CD-ROM drive.

3 Follow the instructions on the screen.

4 Restart the computer after installation is completed.

5 Set up the options with the printer driver.

Installing the PCL 6/5e Printer Driver

Windows 95/98/Me - Installing the PCL 6/5e Printer Driver

Installing the printer driver

The following instructions explain how to install the PCL6/5e printer driver. See P.17 *"Installing by Auto Run"* .

Two kinds of PCL printer driver, PCL 6 and PCL 5e, are provided with this printer. We recommend PCL 6 as your first choice.

Note

❒ Some of your applications might require the installation of the PCL 5e printer driver. In this case, you can install PCL 5e by using custom installation.

Setting up options

Important

❒ If the printer is equipped with certain options (e.g. the Paper Feed Unit or the Memory Unit), you should set up the options with the printer driver.

Note

❒ When setting up options, you should access the Printer Properties dialog box from Windows. You cannot set up options by accessing the Printer Properties dialog box from an application.

1 **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

The **[Printers]** window appears.

2 **Click to select the icon of the printer you want to use.**

3 **On the [File] menu, click [Properties].**

The Printer Properties appear.

4 **Click the [Accessories] tab.**

5 **Select options you have installed from the [Options] group.**

6 **Click [OK] .**

Windows 2000 - Installing the PCL 6/5e Printer Driver

Installing the printer driver

Limitation

❒ Installing a printer driver by Auto Run requires Administrators permission. When you install a printer driver by Auto Run, log on using an account that has Administrators permission.

Install the driver in accordance with the steps explained. See P.17 *"Installing by Auto Run"*.

Two kinds of PCL printer driver, PCL 6 and PCL 5e, are provided with this printer. We recommend PCL 6 as your first choice.

Note

❒ Some of your applications might require the installation of the PCL 5e printer driver. In this case, you can install PCL 5e by using custom installation.

Note

❒ During installation, the **[Digital Signature Not Found]** dialog box may appear. In this case, click **[Yes]** to continue the installation.

When prompted for the Windows 95/98/Me alternate printer driver location, select one of the following folders on the CD-ROM:

- PCL 6
  \DRIVERS\PCL6\WIN9X_ME\(Language)\DISK1\
- PCL 5e
  \DRIVERS\PCL5E\WIN9X_ME\(Language)\DISK1\

When prompted for the Windows NT 4.0 alternate driver location, select one of the following folders on the CD-ROM:

- PCL 6
  \DRIVERS\PCL6\NT4\(Language)\DISK1\
- PCL 5e
  \DRIVERS\PCL5E\NT4\(Language)\DISK1\

Setting up options

Limitation

❒ Changing the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

Important

❒ If the printer is equipped with certain options (e.g. the Paper Feed Unit or the Memory Unit), you should set up the options with the printer driver.

Note

❒ When setting up options, you should access the Printer Properties dialog box from Windows. You cannot set up options by accessing the Printer Properties dialog box from an application.

1. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

   The **[Printers]** window appears.

2. **Click to select the icon of the printer you want to use.**

3. **On the [File] menu, click [Properties].**

   The Printer Properties appear.

4. **Click the [Accessories] tab.**

5. **Select options you have installed from the [Options] group.**

6. **Click [OK] .**

Windows NT 4.0 - Installing the PCL 6/5e Printer Driver

Installing the printer driver

Limitation

❒ Installing a printer driver by Auto Run requires Administrators permission. When you install a printer driver by Auto Run, log on using an account that has Administrators permission.

Install the driver in accordance with the steps explained. See P.17 *"Installing by Auto Run"*.

Two kinds of PCL printer driver, PCL 6 and PCL 5e, are provided with this printer. We recommend PCL 6 as your first choice.

Note

❒ Some of your applications might require the installation of the PCL 5e printer driver. In this case, you can install PCL 5e by using custom installation.

When prompted for the Windows 95/98/Me alternate printer driver location, select one of the following folders on the CD-ROM:

- PCL 6
  \DRIVERS\PCL6\WIN9X_ME\(Language)\DISK1\
- PCL 5e
  \DRIVERS\PCL5E\WIN9X_ME\(Language)\DISK1\

Setting up options

Limitation

❒ Changing the setting of the printer requires Full Control access permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you set up options, log on using an account that has Full Control permission.

Important

❒ If the printer is equipped with certain options (e.g. the Paper Feed Unit or the Memory Unit), you should set up the options with the printer driver.

Note

❒ When setting up options, you should access the Printer Properties dialog box from Windows. You cannot set up options by accessing the Printer Properties dialog box from an application.

1 Click [Start] on the taskbar, point to [Settings], and then click [Printers].

The **[Printers]** window appears.

2 Click to select the icon of the printer you want to use.

3 **On the [File] menu, click [Properties].**

The Printer Properties appear.

4 **Click the [Accessories] tab.**

5 **Select options you have installed from the [Options] group.**

6 **Click [OK] .**

Installing the PostScript Printer Driver

This section describes basic instructions for installing the PostScript printer driver. The actual procedure may differ depending on the operating system. Follow the appropriate procedures below.

Important

❒ When updating the printer driver by installing the latest version, you should uninstall that of former version if any. See *"Uninstalling the Printer Driver and Software"* in "Printer Reference 2".

Windows 95/98/Me - Installing the PostScript Printer Driver

Installing the printer driver

1. **Close all applications that are currently running.**
2. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**
   The **[Printers]** window appears.
3. **Double-click the [Add Printer] icon.**
   [Add Printer Wizard] starts.
4. **Click [Next].**
5. **Check [Local Printer] and click [Next].**
   A dialog box for selecting the printer manufacture and model name appears.
6. **Click [Have Disk].**
   A dialog box for installing the printer driver from a disk appears.
7. **Hold down the 【SHIFT】 key and insert the CD-ROM into the CD-ROM drive. Keep the 【SHIFT】 key held down until the computer has finished accessing the CD-ROM.**
   If the Auto Run program starts, click **[Cancel]**.
8. **Click [Browse].**
9. **Use the [Drives:] list box to select the CD-ROM drive.**
10. **In the [Folders:] box, double-click [PS] and [WIN9X_ME]. Then double-click the folder of the appropriate language for the operating system. Finally, click [OK].**

11 Click [OK].

A printer model selection dialog box appears.

12 Click to select the name of the printer whose driver you want to install, and then click [Next].

A dialog box for selecting the printer port appears.

13 In the [Available ports:] box, click to select [Printer Port], and then click [Next].

A dialog box for changing the printer name appears.

14 Change the name of the printer if you want, and then click [Next].

15 Select whether or not you want to print a test page, and then click [Finish].

16 If you are asked whether you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the installation.

Important

❒ If the printer is equipped with certain options (e.g. the Paper Feed Unit or the Memory Unit), you should set up the options with the printer driver.

Setting up options

1 Click [Start] on the taskbar, point to [Settings], and then click [Printers].

The **[Printers]** window appears.

2 Click to select the icon of the printer you want to use.

3 On the [File] menu, click [Properties].

The Printer Properties appear.

4 Click the [Accessories] tab.

5 Select options you have installed from the [Options] group.

6 Click [OK].

Windows 2000 - Installing the PostScript Printer Driver

Installing the printer driver

Limitation

❒ Installing a printer driver requires Administrators permission. When you install a printer driver, log on using an account that has Administrators permission.

1. **Close all applications that are currently running.**
2. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**
   The **[Printers]** window appears.
3. **Double-click the [Add Printer] icon.**
   [Add Printer Wizard] starts.
4. **Click [Next].**
5. **Check [Local Printer] and click [Next].**
   A dialog box for selecting the printer port appears.
6. **Select the check box of the port you want to use, and then click [Next].**
   A dialog box for selecting the printer manufacture and model name appears.
7. **Click [Have Disk].**
   A dialog box for installing the driver from a disk appears.
8. **Hold down the 【SHIFT】 key and insert the CD-ROM into the CD-ROM drive. Keep the 【SHIFT】 key held down until the computer has finished accessing the CD-ROM.**
   If the Auto Run program starts, click **[Cancel]**.
9. **Change the drive name in the list box to the name of the CD-ROM drive, and then click [Browse].**
10. **In the [Folders:] box, double-click [PS] and [WIN2000]. Then double-click the folder of the appropriate language for the operating system. Finally, click [Open].**
11. **Click [OK].**
    A printer model selection dialog box appears.
12. **Click to select the name of the printer whose driver you want to install, and then click [Next].**
    A dialog box for changing the printer name appears.

13 **Change the name of the printer if you want, and then click [Next].**

A dialog box for sharing the printer appears.

14 **Select whether or not the printer will be shared, and then click [Next].**

15 **In the next dialog box asking if you want to print a test page, select [No], and then click [Next].**

A dialog box for completing the Add Printer Wizard appears.

16 **Click [Finish].**

The installer copies the printer driver files from the CD-ROM to the computer's hard disk.

Note

❒ During installation, the **[Digital Signature Not Found]** dialog box may appear. In this case, click **[Yes]** to continue the installation.

❒ Print a test page after completing installation and restarting Windows.

17 **If you are asked whether you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the installation.**

Important

❒ If the printer is equipped with certain options (e.g. the Paper Feed Unit or the Memory Unit), you should set up the options with the printer driver.

Setting up options

Limitation

❒ Changing the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

1 **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

The **[Printers]** window appears.

2 **Click to select the icon of the printer you want to use.**

3 **On the [File] menu, click [Properties].**

The Printer Properties appear.

4 **Click the [Accessories] tab.**

5 **Click [OK].**

Windows NT 4.0 - Installing the PostScript Printer Driver

Installing the printer driver

Limitation

❒ Installing a printer driver requires Administrators permission. When you install a printer driver, log on using an account that has Administrators permission.

Important

❒ The CD-ROM containing the Windows NT Server operating system version 4.0, or the Windows NT Workstation operating system is required for installing the printer driver.

❒ We recommend that you upgrade the Windows NT 4.0 operating system to Service Pack 4 or later before installing the printer driver. Contact your Windows retailer for more information about the latest version available.

1 Close all applications that are currently running.

2 Click [Start] on the taskbar, point to [Settings], and then click [Printers].

The **[Printers]** window appears.

3 Double-click the [Add Printer] icon.

[Add Printer Wizard] starts.

4 After confirming that the [My Computer] option is selected, click [Next].

A dialog box for selecting the printer port appears.

5 Select the check box of the port you want to use, and then click [Next].

A dialog box for selecting the printer manufacture and model name appears.

6 Click [Have Disk].

A dialog box for installing the driver from a disk appears.

7 Hold down the 【SHIFT】 key and insert the CD-ROM into the CD-ROM drive. Keep the 【SHIFT】 key held down until the computer has finished accessing the CD-ROM.

If the Auto Run program starts, click **[Cancel]**.

8 Change the drive name in the list box to the name of the CD-ROM drive, and then click [Browse].

9 In the [Folders:] box, double-click [PS] and [NT4]. Then double-click the folder of the appropriate language for the operating system. Finally, click [Open].

⑩ **Click [OK].**

A printer model selection dialog box appears.

⑪ **Click to select the name of the printer whose driver you want to install, and then click [Next].**

A dialog box for changing the printer name appears.

⑫ **Change the name of the printer if you want, and then click [Next].**

A dialog box for sharing the printer appears.

⑬ **Select whether or not the printer will be shared, and then click [Next]**

⑭ **In the next dialog box asking if you want to print a test page, select [No], and then click [Finish].**

The installer copies the printer driver files from the CD-ROM to the computer's hard disk.

Note

❒ Print a test page after completing installation and restarting Windows.

⑮ **If you are asked whether you want to restart Windows, select [Yes]. If you are not asked, restart Windows after completing the installation.**

Setting up options

Limitation

❒ Changing the printer settings requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

Important

❒ If the printer is equipped with certain options (e.g. the Paper Feed Unit or the Memory Unit), you should set up the options with the printer driver.

① **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

The **[Printers]** window appears.

② **Click to select the icon of the printer you want to use.**

③ **On the [File] menu, click [Properties].**

The Printer Properties appear.

④ **Click the [Accessories] tab.**

⑤ **Select options you have installed from the [Options] group.**

⑥ **Click [OK].**

Using Adobe PageMaker Version 6.0 or 6.5

If you use the printer under Windows 95/98/Me, Windows 2000, Windows NT 4.0 with Adobe PageMaker, you need to copy the PPD file to the PageMaker folder.

The PPD file is the file with extension ".ppd". It is in the folder "DRIVERS\PS\WIN9X_ME\(Language)\DISK1\" on the CD-ROM.

The **[WIN9X_ME]** folder, inside the **[PS]** folder is for the Windows 95/98/Me operating system. Use the folder at this level that is appropriate for the operating system you are using.

The third folder, "(Language)" may be substituted by an appropriate language name.

Copy this file to the PageMaker folder.

For PageMaker 6.0 default installation, the folder is "C:\PM6\RSRC\PPD4", and for PageMaker 6.5 default installation, the directory is "C:\PM65\RSRC\USENGLISH\PPD4". The "USENGLISH" may differ depending on your language selection.

Reference

For more information about the language name, see P.17 *"Installing by Auto Run"*.

Macintosh

Macintosh - Installing the PPD File

You can use the LaserWriter printer driver that comes with a Macintosh when printing from a Macintosh. However, if you use the LaserWriter printer driver alone, you cannot use the printer specific functions. The printer specific functions can be used by installing the PPD file.

Note

❒ The LaserWriter printer driver for a Macintosh does not come with this printer. Use the appropriate printer driver that comes with the Macintosh you are using.

❒ See the documentation that comes with the operating system for more information about the functions of the LaserWriter 8 printer driver.

Installing the PPD File

1 Start the Macintosh.

2 Double-click the icon of the hard disk to open it.

3 Open the [Extensions] folder inside the [System Folder] by double-clicking it.

4 Insert the CD-ROM into the CD-ROM drive.

The icon of the CD-ROM appears.

5 Double-click the CD-ROM icon.

The contents of the CD-ROM are displayed.

6 Double-click the [Printer Descriptions] folder of the CD-ROM, and then double-click the folder having the appropriate language name to open it.

7 Drag the PPD file for the printer and drop it into the [Printer Descriptions] folder inside the [Extensions] folder on the Macintosh hard disk.

The PPD file is installed.

8 Drag the CD-ROM icon and drop it into [Trash] to eject the CD-ROM.

This completes PPD file installation.

Setting up the PPD file

Preparation

Confirm that the printer is connected to an AppleTalk network before performing the following procedure.

1. **On the Apple menu, select [Chooser].**
2. **Click the [LaserWriter 8] icon.**
3. **In the [Select a PostScript Printer] list, click to select the name of the printer you want to use.**
4. **Click [Create].**
5. **Click to select the printer you want to use, and then click [Select].**

   The PPD file is set up, and the LaserWriter 8 icon appears at the left of the printer name in the list. Next, follow the procedure on P.31 *"Setting up options"* to make the option settings, or close the **[Chooser]** dialog box.

Setting up options

1. **On the Apple menu, select [Chooser].**
2. **Click the [LaserWriter 8] icon.**
3. **In the [Select the PostScript Printer] list, click to select the name of the printer you want to use, and then click [Setup].**
4. **Click [Configure].**

   A list of options appears.
5. **Select the option you want to set up and select the appropriate setting for it.**

   Note

   ❒ If the option you want to set up does not appear, the PPD file has not been set up correctly. Check the name of the PPD file shown in the dialog box.
6. **Click [OK].**

   The list of options closes.
7. **Click [OK].**

   The **[Chooser]** dialog box appears.
8. **Close the [Chooser] dialog box.**

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MEMO

Printer Reference 2 (option)

Introduction

This manual contains detailed instructions on the operation and maintenance of this machine. To get maximum versatility from this machine all operators should carefully read and follow the instructions in this manual.

Please keep this manual in a handy place near the machine.

Please read the Safety Information in the “Copy Reference” manual before using this machine. It contains important information related to USER SAFETY and PREVENTING EQUIPMENT PROBLEMS.

Important

Parts of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

Trademarks

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Ethernet is a registered trademark of Xerox Corporation.

Adobe, PostScript, Acrobat and PageMaker are registered trademarks of Adobe System Incorporated.

PCL is a registered trademark of Hewlett-Packard Company.

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights in those marks.

Warning:

Use of controls or adjustment or performance of procedures other than those specified in this manual might result in hazardous radiation exposure.

Notes:

Some illustrations might be slightly different from your machine.

Certain options might not be available in some countries. For details, please contact your local dealer.

Manuals for This Machine

Manuals for This Machine

There are ten manuals that separately describe the operational procedures for the operation and maintenance of the machine.

To enhance safe and efficient operation of the machine, all users should read and follow the instructions contained in the following manuals.

❖ **Copy Reference**
Describes the procedures and functions for using this machine as a copier.

❖ **System Settings**
Describes the system settings of this machine.

❖ **Facsimile Reference <Basic Features>**
Describes the procedures and most frequently used functions for using this machine as a facsimile.

❖ **Facsimile Reference <Advanced Features>**
Describes the procedures and more advanced functions for using this machine as a facsimile. And also explains settings for key operators.

❖ **Printer Reference 1**
Describes the system settings, procedures and functions for using this machine as a printer.

❖ **Printer Reference 2**
Describes the procedures and provides necessary information about using this machine as a printer. This manual is included as a PDF file on the CD-ROM labeled "Operating Instructions for Printer". (this manual)

❖ **Network Interface Board Quick Configuration Guide**
Describes the procedures and provides necessary information about setting up and using the printer under the network environment. This manual is included as a PDF file on the CD-ROM labeled "Operating Instructions for Printer".

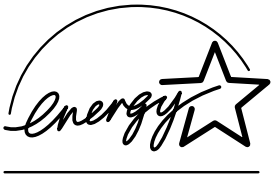
❖ **Type 1018 PostScript level2 Compatible Kit Operating Instructions Supplement**
Describes the functions of Printer Utility for Mac. This manual is included as a PDF file on the CD-ROM labeled "Operating Instructions for Printer".

❖ **UNIX Supplement**
Provides information about setting up and using the printer in a UNIX environment. This manual is included as a PDF file on the CD-ROM labeled "Operating Instructions for Printer".

❖ **Network Interface Board Type 1018 Owner's Manual**
Describes the procedures and provides necessary information about setting up and using the printer under the network environment. This manual is included as a PDF file on the CD-ROM labeled "Print Server Software and Documentation" which comes with optional Network Interface Board Type 1018.

ENERGY STAR Program

ENERGY STAR®



As an ENERGY STAR Partner, we have determined that this machine model meets the ENERGY STAR Guidelines for energy efficiency.

The ENERGY STAR Guidelines intend to establish an international energy-saving system for developing and introducing energy-efficient office equipment to deal with environmental issues, such as global warming.

When a product meets the ENERGY STAR Guidelines for energy efficiency, the Partner shall place the ENERGY STAR logo onto the machine model.

This product was designed to reduce the environmental impact associated with office equipment by means of energy-saving features, such as Low-power mode.

- Low Power mode
  This product automatically lowers its power consumption 15 minutes after the last copy or print job has finished. Printing is still possible in Low Power mode, but if you wish to make copies press the **【Operation Switch】** key first.
  For how to change the default interval that the machine waits before entering Low Power mode, see "Energy Saver Timer" in the "System Settings".
- Sleep mode (Printer and facsimile installed)
  If the printer or facsimile features are installed, this product automatically lowers its power consumption even further 30 minutes after the last copy or print job has finished. Printing and facsimile reception is still possible in Sleep mode, but if you wish to make copies press the operation switch first.
  For how to change the default interval that the machine waits before entering Sleep mode, see "Auto Off Timer" in the "System Settings".
- Auto Off mode (Copier only)
  If the neither the printer feature nor facsimile feature is installed, this product automatically turns itself off 30 minutes after the last copy or print job has finished. If you wish to make copies when the machine is in Auto Off mode, press the operation switch.
  For how to change the default interval that the machine waits before entering Auto Off mode, see "Auto Off Timer" in the "System Settings".

❖ Specification

		Copy feature	Printer or facsimile installed
Low Power mode	Power consumption	70 Wh	80 Wh
	Default Time	15 minutes	15 minutes
	Recovery Time	Less than 20 seconds	Less than 20 seconds
Sleep Mode	Power consumption	-	70 Wh
	Default Time	-	30 minutes
	Recovery Time	-	20 seconds
Auto Off mode	Power consumption	Less than 1 Wh	-
	Default Time	30 minutes	-
	Recovery Time	20 seconds	-

Recycled Paper

In accordance with the ENERGY STAR Program, we recommend use of recycled paper which is environment friendly.Please contact your sales representative for recommended paper.

How to Read This Manual

Symbols

In this manual, the following symbols are used:

⚠ ***WARNING:***
This symbol indicates a potentially hazardous situation which, if instructions are not followed, could result in death or serious injury.

⚠ ***CAUTION:***
This symbol indicates a potentially hazardous situation which, if instructions are not followed, may result in minor or moderate injury or damage to property.

* The statements above are notes for your safety.

Important
If this instruction is not followed, paper might be misfed, originals might be damaged, or data might be lost. Be sure to read this.

Preparation
This symbol indicates the prior knowledge or preparations required before operating.

Note
This symbol indicates precautions for operation, or actions to take after misoperation.

Limitation
This symbol indicates numerical limits, functions that cannot be used together, or conditions in which a particular function cannot be used.

Reference
This symbol indicates a reference.

[ ]
Keys that appear on the machine's panel display.

Keys and buttons that appear on the computer's display.

【 】
Keys built into the machine's operation panel.

Keys on the computer's keyboard.

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1. Setting Up the Printer Driver and Canceling a Print Job

PCL Menu 6/5e - Accessing the Printer Properties

Windows 95/98/Me - Accessing the Printer Properties

Changing the default printer settings

1. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

   The **[Printers]** window appears.

2. **Click to select the icon of the printer whose default settings you want to change.**

3. **On the [File] menu, click [Properties].**

   The Printer Properties appear.

4. **Make any settings you require and click [Apply].**

   Note

   ❒ With some applications, the printer driver's settings are not used, and the application's own default settings are applied.

5. **Click [OK].**

Making printer settings from an application

To make the printer settings for a specific application, open the Printer Properties dialog box from that application. The following example describes how to make settings for the WordPad application that comes with Windows 95/98/Me.

Note

❒ The actual procedure you should follow to open the Printer Properties dialog box may differ depending on the application. For more information, see the documentation that comes with the application you are using.

❒ Any settings you make in the following procedure are valid for the current application only.

1. **On the [File] menu, click [Print].**

   The **[Print]** dialog box appears.

2 **Select the printer you want to use in the [Name] list box, and then click [Properties].**

The Printer Properties appear.

3 **Make any settings you require and click [Apply].**

4 **Click [OK] to start printing.**

Windows 2000 - Accessing the Printer Properties

Changing the default printer settings - Printer Properties

Limitation

❒ Changing the setting of the printer requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

1 **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

The **[Printers]** window appears.

2 **Click to select the icon of the printer whose default settings you want to change.**

3 **On the [File] menu, click [Properties].**

The Printer Properties appear.

4 **Make any settings you require and click [Apply].**

Note

❒ Settings you make here are used as the default settings for all applications.

5 **Click [OK].**

Changing the default printer settings - Printing Preferences Properties

Limitation

❒ Changing the setting of the printer requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

1 **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

The **[Printers]** window appears.

2 **Click to select the icon of the printer whose default settings you want to change.**

3 **On the [File] menu, click [Printing Preferences...].**

The Printing Preferences Properties appear.

4 **Make any settings you require and click [Apply].**

Note

❒ Settings you make here are used as the default settings for all applications.

5 **Click [OK].**

Making printer settings from an application

To make the printer settings for a specific application, open the **[Print]** dialog box from that application. The following example describes how to make settings for the WordPad application that comes with Windows 2000.

Note

❒ The actual procedures you should follow to open the **[Print]** dialog box may differ depending on the application. For more information, see the documentation that comes with the application you are using.

❒ Any settings you make in the following procedure are valid for the current application only.

1 **On the [File] menu, click [Print...].**

The **[Print]** dialog box appears.

2 **Select the printer you want to use in the [Select Printer] box.**

3 **Make any settings you require and click [Apply].**

4 **Click [Print] to start printing.**

Windows NT 4.0 - Accessing the Printer Properties

Changing the default printer settings - Printer Properties

Limitation

❒ Changing the setting of the printer requires Full Control access permission. Members of Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you set up options, log on using an account that has Full Control permission.

1 Click [Start] on the taskbar, point to [Settings], and then click [Printers].

The **[Printers]** window appears.

2 Click to select the icon of the printer whose default settings you want to change.

3 On the [File] menu, click [Properties].

The Printer Properties appear.

4 Make any settings you require and click [OK].

Note

❒ Settings you make here are used as the default settings for all applications.

Changing the default printer settings - Default Document Properties

Limitation

❒ Changing the setting of the printer requires Full Control access permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you set up options, log on using an account that has Full Control permission.

1 Click [Start] on the taskbar, point to [Settings], and then click [Printers].

The **[Printers]** window appears.

2 Click to select the icon of the printer whose default settings you want to change.

3 On the [File] menu, click [Document Defaults...].

The Default Document Properties appear.

4 Make any settings you require and click [OK].

Note

❒ Settings you make here are used as the default settings for all applications.

Making printer settings from an application

To make the printer settings for a specific application, open the Printer Properties dialog box from that application. The following example describes how to make settings for the WordPad application that comes with Windows NT 4.0.

Note

❒ The actual procedure you should follow to open the Printer Properties dialog box may differ depending on the application. For more information, see the documentation that comes with the application you are using.

❒ Any settings you make in the following procedure are valid for the current application only.

1 On the [File] menu, click [Print...].

The **[Print]** dialog box appears.

2 Select the printer you want to use in the [Name] list box, and then click [Properties].

The Printer Properties appear.

3 Make any settings you require and click [OK].

4 Click [OK] to start printing.

PostScript - Setting Up for Printing

Windows 95/98/Me - Accessing the Printer Properties

Changing the default printer settings

To make the Printer default settings, first open the Printer Properties dialog box from the **[Printers]**window.

Note

❒ With some applications, the printer driver's settings are not used, and the application's own default settings are applied.

1. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

   The **[Printers]** window appears.

2. **Click to select the icon of the printer whose default settings you want to change.**

3. **On the [File] menu, click [Properties].**

   The Printer Properties appear.

4. **Make any settings you require and click [Apply].**

5. **Click [OK].**

Making printer settings from an application

To make the printer settings for a specific application, open the Printer Properties dialog box from that application. The following example describes how to make settings for the WordPad application that comes with Windows 95/98/Me.

Note

❒ The actual procedure you should follow to open the Printer Properties dialog box may differ depending on the application. For more information, see the documentation that comes with the application you are using.

❒ With some applications, the printer driver's settings are not used, and the application's own default settings are applied.

❒ Any settings you make in the following procedure are valid for the current application only.

1. **On the [File] menu, click [Print].**

   The **[Print]** dialog box appears.

2 **Select the printer you want to use in the [Name] list box, and then click [Properties].**

The Printer Properties appear.

3 **Make any settings you require and click [Apply].**

4 **Click [OK] to start printing.**

Windows 2000 - Accessing the Printer Properties

Changing the default printer settings - Printer Properties

Limitation

❒ Changing the setting of the printer requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

1 **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

The **[Printers]** window appears.

2 **Click to select the icon of the printer whose default settings you want to change.**

3 **On the [File] menu, click [Properties].**

The Printer Properties appear.

4 **Make any settings you require and click [Apply].**

Note

❒ Settings you make here are used as the default settings for all applications.

5 **Click [OK].**

Changing the default printer settings - Printing Preferences Properties

Limitation

❒ Changing the setting of the printer requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you set up options, log on using an account that has Manage Printers permission.

1 **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

The **[Printers]** window appears.

2 **Click to select the icon of the printer whose default settings you want to change.**

3 **On the [File] menu, click [Printing Preferences...].**

The Printing Preferences Properties appear.

4 **Make any settings you require and click [Apply].**

Note

❒ Settings you make here are used as the default settings for all applications.

5 **Click [OK].**

Making printer settings from an application

To make the printer settings for a specific application, open the **[Print]** dialog box from that application. The following example describes how to make settings for the WordPad application that comes with Windows 2000.

Note

❒ The actual procedures you should follow to open the **[Print]** dialog box may differ depending on the application. For more information, see the documentation that comes with the application you are using.

❒ Any settings you make in the following procedure are valid for the current application only.

1 **On the [File] menu, click [Print...].**

The **[Print]** dialog box appears.

2 **Select the printer you want to use in the [Select Printer] box.**

3 **Make any settings you require and click [Apply].**

4 **Click [OK] to start printing.**

Windows NT 4.0 - Accessing the Printer Properties

Changing the default printer settings - Printer Properties

Limitation

❒ Changing the setting of the printer requires Full Control access permission. Members of Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you set up options, log on using an account that has Full Control permission.

1. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

   The **[Printers]** window appears .

2. **Click to select the icon of the printer whose default settings you want to change.**

3. **On the [File] menu, click [Properties].**

   The Printer Properties appear.

4. **Make any settings you require and click [OK].**

Note

❒ Settings you make here are used as the default settings for all applications.

Changing the default printer settings - Default Document Properties

Limitation

❒ Changing the setting of the printer requires Full Control access permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control permission by default. When you set up options, log on using an account that has Full Control permission.

1. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

   The **[Printers]** window appears.

2. **Click to select the icon of the printer you want to use.**

3. **On the [File] menu, click [Document Defaults...].**

   The Default Document Properties appear.

4. **Make any settings you require and click [OK].**

Note

❒ Settings you make here are used as the default settings for all applications.

Making printer settings from an application

To make the printer settings for a specific application, open the Printer Properties dialog box from that application. The following example describes how to make settings for the WordPad application that comes with Windows NT 4.0.

Note

❒ The actual procedure you should follow to open the Printer Properties dialog box may differ depending on the application. For more information, see the documentation that comes with the application you are using.

❒ Any settings you make in the following procedure are valid for the current application only.

1 On the [File] menu, click [Print].

The **[Print]** dialog box appears.

2 Select the printer you want to use in the [Name] list box, and then click [Properties].

The Printer Properties appear.

3 Make any settings you require and click [OK].

4 Click [OK] to start printing.

Macintosh - Setting Up for Printing

Making paper settings from an application

1. **Open the file you want to print.**
2. **On the [File] menu, click [Page Setup].**
   The **[LaserWriter 8 Page Setup]** dialog box appears.
3. **Confirm that the printer you want to use is shown in [Format for:] box.**
   Then, use **[Paper]** to select the paper size you want to use.

   Note
   ❒ If the printer is not shown in the **[Format for:]** box, use the pop-up menu to display a list of available printers.

   Reference
   The actual appearance of the **[Page Setup]** dialog box depends on the application you are using. See the documentation that comes with the Macintosh for more information.
4. **After configuring the settings, click [OK].**

Setting up for printing from an application

1. **Open the file you want to print.**
2. **On the [File] menu, click [Print].**
   The **[Printer]** dialog box appears.
3. **Confirm that the printer is selected in the [Printer :] box, and make the printer settings.**
4. **After configuring the settings, click [Print] .**

Canceling a Print Job

Windows 95/98/Me, Windows 2000, Windows NT 4.0 - Canceling a Print Job

1 **Double-click the printer icon on the Windows taskbar.**

A window appears, showing all the print jobs that are currently queuing to be printed. Check the current status of the job you want to cancel.

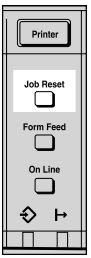
2 **Select the name of the job you want to cancel.**

3 **On the [Document] menu, click [Cancel].**

Note

❒ You can also open the print job queue window by double-clicking the printer icon in the **[Printers]** window.

4 **Press 【Job Reset】 on the operation panel.**



The message appears on the panel display indicating that the print job is being canceled.

Important

❒ This procedure cancels the print job that is being processed by the printer. In some cases, the printer may already be processing data for the next print job following the one currently being output. In this case, the next print job is also canceled when you press 【Job Reset】.

❒ When the printer is being shared by multiple computers, be careful not to accidentally cancel someone else's print job.

Note

❒ You cannot stop printing data that has already been processed internally by the printer. Because of this, printing may continue for a few pages after you press 【Job Reset】.

❒ A print job that contains a large volume of data may take considerable time to stop.

Macintosh - Canceling a Print Job

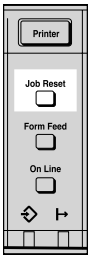
1 **Double-click the printer's icon on the desktop.**

A window appears, showing all the print jobs that are currently queuing to be printed. Check the current status of the job you want to cancel.

2 **Select the name of the job you want to cancel.**

3 **Click the pause icon, and then click the trash icon.**

4 **Press 【Job Reset】 on the operation panel.**



The message appears on the panel display indicating that the print job is being canceled.

Important

- This procedure cancels the print job that is being processed by the printer. In some case, the printer may already be processing data for the next print job following the one currently being output. In this case, the next print job is also canceled when you press 【Job Reset】.
- When the printer is being shared by multiple computers, be careful not to accidentally cancel someone else's print job.

Note

- You cannot stop printing data that has already been processed internally by the printer. Because of this, printing may continue for a few pages after you press 【Job Reset】.
- A print job that contains a large volume of data may take considerable time to stop.

2. Uninstalling the Printer Driver and Software

Uninstalling the PCL 6/5e Printer Driver

This section describes how to uninstall the printer driver. The actual procedure may differ depending on the operating system.

Follow one of the appropriate procedures below.

Windows 95/98/Me - Uninstalling the PCL 6/5e Printer Driver

1. **Close all applications that are currently running.**
2. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

   The **[Printers]** window appears.
3. **Click to select the icon of the printer you want to remove.**
4. **On the [File] menu, click [Delete].**

   A confirmation dialog box appears.
5. **Click [Yes] to uninstall the printer driver.**

Windows 2000 - Uninstalling the PCL 6/5e Printer Driver

Limitation

- Uninstalling a printer driver requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you uninstall a printer driver, log on using an account that has Manage Printers permission.

1. **Close all applications that are currently running.**
2. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**

   The **[Printers]** window appears.
3. **Click to select the icon of the printer you want to remove.**
4. **On the [File] menu, click [Delete].**

   A confirmation dialog box appears.
5. **Click [Yes] to uninstall the printer driver.**

Windows NT 4.0 - Uninstalling the PCL 6/5e Printer Driver

Limitation

❒ Uninstalling a printer driver requires Full Control access permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control Permission by default. When you install a printer driver, log on using an account that has Full Control permission.

1. **Close all applications that are currently running.**
2. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**
   The **[Printers]** window appears.
3. **Click to select the icon of the printer you want to remove.**
4. **On the [File] menu, click [Delete].**
   A confirmation dialog box appears.
5. **Click [Yes] to uninstall the printer driver.**

Uninstalling the PostScript Printer Driver

This section describes how to uninstall the PostScript printer driver.
The actual procedure may differ depending on the operating system.
Follow one of the appropriate procedures below.

Windows 95/98/Me - Uninstalling the PostScript Printer Driver

1. **Close all applications that are currently running.**
2. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**
   The **[Printers]** window appears.
3. **Click to select the icon of the printer you want to remove.**
4. **On the [File] menu, click [Delete].**
   A confirmation dialog box appears.
5. **Click [Yes] to uninstall the printer driver.**

Windows 2000 - Uninstalling the PostScript Printer Driver

Limitation

- Uninstalling a printer driver requires Manage Printers permission. Members of the Administrators and Power Users groups have Manage Printers permission by default. When you uninstall a printer driver, log on using an account that has Manage Printers permission.

1. **Close all applications that are currently running.**
2. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**
   The **[Printers]** window appears.
3. **Click to select the icon of the printer you want to remove.**
4. **On the [File] menu, click [Delete].**
   A confirmation dialog box appears.
5. **Click [Yes] to uninstall the printer driver.**

Windows NT 4.0 - Uninstalling the PostScript Printer Driver

Limitation

❒ Uninstalling a printer driver requires Full Control access permission. Members of the Administrators, Server Operators, Print Operators, and Power Users groups have Full Control Permission by default. When you uninstall a printer driver, log on using an account that has Full Control permission.

2

1. **Close all applications that are currently running.**
2. **Click [Start] on the taskbar, point to [Settings], and then click [Printers].**
   The **[Printers]** window appears.
3. **Click to select the icon of the printer you want to remove.**
4. **On the [File] menu, click [Delete].**
   A confirmation dialog box appears.
5. **Click [Yes] to uninstall the printer driver.**

Macintosh - Uninstalling the PostScript Printer Driver

1. **Delete the "PPD" file inside the [Printer Description] folder in the [Extensions] folder in [System Folder].**

3. Troubleshooting

Error & Status Messages on the Operation Panel

Messages/Second messages	Description	Solution
Add Toner Open Front Cover and /Follow Instructions to Replace Toner Bottle	Toner is running out.	Replace the toner bottle with a new one.
Call service:EC Power Off On /If error Reoccur Call Service	An error has occurred in the printer.	First, turn the power switch off and then on. If the message appears again, call your sales or service representative.
Clear Misfeed(s) / Follow instructions in Right Cover	There is misfeed at the right cover.	Remove the misfed paper following the instructions inside the right cover.
Close Front Cover	The front cover is open.	Close the front cover.
Close Lower Right Cover	The lower right cover (next to Tray 1, Tray 2 , Tray3 or Tray4) is open.	Close the lower right cover (next to Tray 1, Tray 2 , Tray3 or Tray4).
Close Right Cover	The right cover is open.	Close the right cover.
Form Feed...	The printer is form feeding.	Wait for a while.
Hardware Problem Tray # SCXXXXX	An error has occurred in the Hardware.	First, turn off the power switch and then on. If the message appears again, call your sales or service representative.
Load Bypass Tray [Paper Size]	There is no paper left in the Bypass Tray.	Load paper into the Bypass Tray.
Load Paper [Paper Size]	The paper size setting on the tray differs from that of actual paper size in the tray.	Load paper that matches the paper size settings. Printing will not automatically resume if the paper size and orientation settings are incorrect. Use the operation panel and the paper size dial in the paper tray to set the correct paper size and orientation of the paper in the tray.
Load Tray # [Paper Size]	There is no paper left in this tray.	Load paper into the tray indicated.

Messages/Second messages	Description	Solution
Memory Overflow Job Incomplete	A memory overflow has occurred.	Add memory to the printer.
Memory Full Job Incomplete	A memory full has occurred.	Add memory to the printer.
Printing...	The printer is printing.	Wait for a while.
Print Overrun Job Incomplete	A print overrun occurred on a file being printed. Only a part of the data on the page will be printed, and the print job is suspended, or the current print job has been canceled.	To print the image correctly, add memory to the printer or simplify the actual data size. Set "Page Protect" to "On" on the printer driver. Be sure to return "Page Protect" to "Auto" after the print job. With "Page Protect" "On", the printer performance might be decreased. While using the PostScript printer driver, lower the resolution setting.
Processing...	The printer is processing internally.	Wait for a while.
Ready	The printer is online and ready to print.	If you want to take the printer offline, press **【Online】**.
Resetting Job...	The print job is being reset.	Wait for a while.
Reset Tray # Correctly	The input paper tray is not set correctly.	Set the input paper tray correctly.
Toner is Almost Empty	Toner is almost running out.	Replace the toner bottle with a new one.
Waiting...	The printer is waiting for the next print job.	Wait for a while.
Warming Up...	The printer is warming up or toner is being supplied.	Wait until the panel display change to "Ready".

Machine Does Not Print

Possible Cause	Solutions
Is the power on?	Turn on the machine.
Is the interface cable properly connected?	Connect the interface cable properly. If there are any connectors or screws, make sure that they are fastened securely.
Are you using the correct interface cable?	Be sure to use the correct one. If the cable is damaged or worn, replace it with a new one.
Did you connect the interface cable after turning on the main switch?	Be sure to connect the interface cable before turning on the main switch.
Is the machine Online?	Bring it Online by touching the **[Online]** key.
Is the specified paper set?	Set the specified paper in any of the input trays.
Are there any error messages on the panel display?	Check the error message, and take the required action.
Does the indicator above the Printer Mode key stay red?	Check the error message, and take the required action.
Is the Data-in Indicator blinking or lit?	If it is not, the data does not reach the machine. Check the printer cable connection. Also confirm that the printer port settings are correct.
Can you print a configuration page?	If you cannot, check the printer cable connection. Also confirm that the printer port settings are correct.
Can you make a "Print Test Page" from the printer driver?	If you cannot, the machine might be out of order. Contact your sales or service representative.

Other Printing Problems

Problem	Action
An image is printed on the reverse side of the paper.	Set the paper upside down.
Multiple pages are fed through the printer at once.	Remove all the paper from the tray and fan them gently.
Paper misfeeds occur frequently.	Check the paper size settings. Use the recommended paper. Avoid using curled, folded, or wrinkled paper, perforated paper, or glossy paper.
An operation panel error message stays on after removing the misfed paper.	A paper misfeed message will remain until the front cover is opened and then closed. Open the front cover and close it.
It takes a long time for the printer to start printing.	The machine might be in Energy Saver mode or Low Power mode, which requires more time for warming up and resuming the print job. If you can't wait, change the settings of Low Power. Shift Time and Low Power Timer.
It takes too much time to complete the print job.	The data is so large or complex that it takes time to process it. If the Data In indicator is blinking, the data processing is being done. Just wait until it is finished.
Windows 95/98/Me, 2000, NT 4.0 : The computer does not recognize the installed printer options.	If the printer is not connected to a network, specify which options you have installed using the printer driver. See the HELP file of the printer driver.

4. Using the Operation Panel

Though the factory default settings of the printer are suitable for most printing jobs, the "Printer Features" gives you access to a number of settings that control basic printer operations. "Printer Features" settings you make are retained even when you turn off the printer.

Reference

For more information about the copy features and their system settings, see the "Copy Reference" and the "System Settings" manuals.

Note

❒ Some of the settings accessed by the printer driver can be accessed by the “Printer Features”. Settings made by the printer driver take priority over settings by the“Printer Features”.

Adjusting Printer Features

Printer Features Menu

There are four menu items in the "Printer Features" menu.

- Job Control
- Network Setup
- Maintenance
- List Print

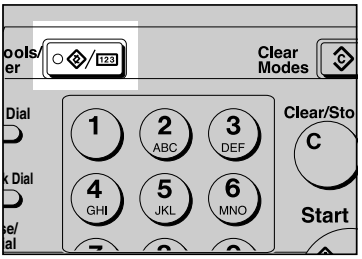
You can select functions in the following table.

Category	Function menu		
Job Control	Paper Input	Tray Priority	
		Tray Locking	
		Bypass Paper Size	Standard Size
			Custom Size
	Print Quality	Edge Smoothing	
		Resolution	PCL
			PS
		Toner Saving	

Category	Function menu	
Job Control	System	Print PS Errors
		I/O Timeout
		I/O Buffer
		Page Protect
		Auto Continue
	PCL Menu	Orientation
		Form Lines
		Font Source
		Font Number
		Point Size
		Font Pitch
		Symbol Set
Network Setup	IP Address	
	Subnet Mask	
	Gateway Address	
Maintenance	Restart Printer	
	Menu Reset	
	Hex Dump	
List Print	Configuration Page	
	Menu List	
	PCL Font List	
	PS Font List	

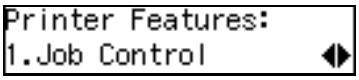
Accessing the Printer Features Menu

Press **【User Tools/Counter】**.



Press the ◁ or ▷key to display “5.Printer Features”, then press **【OK】**.

The following screen appears on the panel display.



Press the ◁ or ▷key to display the following four items one by one.

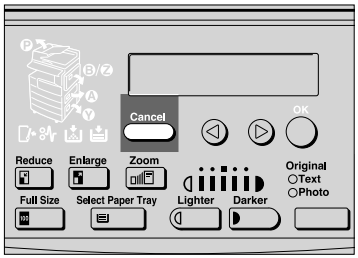
- Job Control
- Network Setup
- Maintenance
- List Print

Note

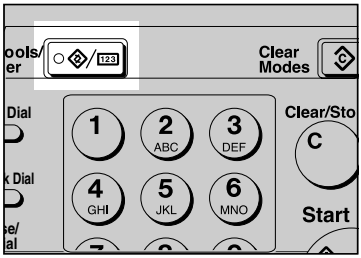
❒ ▷ key : Press to go to the next menu.

❒ ◁ key : Press to go back to the previous menu

❒ After making the printer settings, be sure to return to the previous menu by pressing【**Cancel**】.



❒ After making the printer settings, press【**User Tools/Counter**】to return to the initial display.



❒ The revised settings are not canceled even if the power switch is turned off.

Printer Features Parameters

Job Control Menu

There are four menu items in the "Job Control" menu.

- Paper Input
- Print Quality
- System
- PCL Menu

Job Control Parameters

❖ Paper Input

Menu	Description
Tray Priority	When printing from DOS, the tray selected here is used, when no tray is selected for a print job. Tray 1, Tray 2, Tray 3, Tray 4 **Note** ❒ Default: *Tray 1* ❒ Only the installed trays appear on the panel display. ❒ It is recommended that you load paper having the size and direction you frequently use in the tray selected with "Tray Priority".
Tray Locking	If you use different kinds of paper, you can lock a tray to prevent printing on wrong paper such as letterhead or colored paper. When "Auto Select" is selected in the Paper Source selections from the printer driver, the locked tray will not be used. Tray1, Tray 2, Tray 3, Tray 4, None **Note** ❒ Default: *None* ❒ Only the installed trays appear on the panel display. ❒ If you want to use the locked tray, you must select the tray from the printer driver. ❒ When a locked tray is selected from the printer driver, the printer does not search for any other tray.
Bypass Paper Size	You can specify the paper size, standard or custom, for the bypass tray. For more information about paper sizes that can be set in the bypass tray, See the "Copy Reference".

❖ Print Quality

Menu	Description
Edge Smoothing	You can set whether Edge Smoothing is enabled. • On • Off **Note** ❒ Default: *On* ❒ If "Toner Saving" is "On", "EdgeSmoothing" is ignored even if it is "On".
Resolution	You can set the print resolution in dots per inch. **❖ PCL** 300 dpi, 600 dpi **❖ PS** 300 dpi, 600 dpi **Note** ❒ Default: 600 dpi
Toner Saving	You can select whether to enable Toner Saving. • Off • On **Note** ❒ Default: *Off* ❒ If "Toner Saving" is "On", "EdgeSmoothing" is ignored even if it is "On".

❖ System

Menu	Description
Print PS Errors	You can set whether the PS error sheet should be printed out. • Off • On **Note** ❒ Default: *Off*
I/O Timeout	You can set how many seconds the printer should wait before ending a print job. If data from other port often appears in the middle of the print job, you should increase the timeout value. 15 seconds, 30 seconds, 60 seconds, 180 seconds, 300 seconds **Note** ❒ Default: *30 seconds*
I/O Buffer	You can set the size of the I/O Buffer. Normally it is not necessary to change this setting. 16 KB, 32 KB, 64 KB, 128 KB, 256 KB, 512 KB **Note** ❒ Default: 32 KB
Page Protect	When a "Print Overrun. Job Incomplete." message appears on the panel display, set this function to "On". • Auto • On **Note** ❒ Be sure to return "Page Protect"to "Auto" after the print job. With "Page Protect" "On", the printer performance might be decreased. ❒ Default: *Auto*
Auto Continue	You can set whether to enable Auto Continue. When it is set to "On", the printing continues even if the following error messages appear on the display. "Print Overrun. Job Incomplete.", "Memory Overflow. Job Incomplete.", "Memory Full. Job Incomplete." • Off • On **Note** ❒ When it is "On", and certain type of error occurs, the current job might be canceled, and the printer automatically resumes the next job. ❒ Default: *Off*

❖ PCL Menu

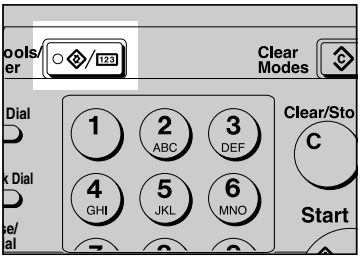
Menu	Description
Orientation	You can set the page orientation. • Portrait • Landscape **Note** ❒ Default: Portrait
Form Lines	You can set the number of lines per page. 5-128 **Note** ❒ Default: 64 (Metric version), 60 (Inch version)
Font Source	You can set the location of the default font. • Internal • Download **Note** ❒ Default: Internal ❒ When you select "Download", you can select only fonts downloaded to printer RAM.
Font Number	You can set the ID of the default font you want to use. • 0 to 54 (for Internal) • 1 to 54 (for Download source) **Note** ❒ Default: Internal ❒ Default: 0
Point Size	You can set the point size you want to use for the default font. 4 to 999.75 by 0.25 **Note** ❒ Default: 12.00 ❒ This setting is effective only for a variable-space font.
Font Pitch	You can set the number of characters per inch you want to use for the default font. 0.44 to 99.99 by 0.01 **Note** ❒ Default: 10.00 ❒ This setting is effective only for a fixed-space font.

Menu	Description
Symbol Set	You can specify the set of print characters for the default font. The available options are as follows. Roman-8, ISO L1, ISO L2, ISO L5, PC-8, PC-8 D/N, PC-850, PC-852, PC8-TK, Win L1, Win L2, Win L5, Desktop, VN Intl, VN US, MS Publ, Math-8, VN Math, Pifont, Legal, ISO 4, ISO 6, ISO 11, ISO 15, ISO 17, ISO 21, ISO 60, ISO 69, Win 3.0 **Note** ❒ Default: Roman-8

Changing the Paper Input Menu

The following procedure describes changing the "Tray Priority" as an example in the "Paper Input"menu.

1 **Press [User Tools/Counter].**



2 **Press the ◀ or ▶key until the following message appears on the panel display.**

```
User Tools:
5.Printer Features  ◆▶
```

3 **Press [OK].**

The following screen appears on the panel display.

```
Printer Features:
1.Job Control       ◆▶
```

4 **Press [OK].**

The following screen appears on the panel display.

```
Job Control:
1.Paper Input       ◆▶
```

5 **Press [OK].**

The following screen appears on the panel display.

```
Paper Input:
1.Tray Priority      ◆▶
```

6 **Press [OK].**

The following screen appears on the panel display.

```
Tray Priority:    ◆▶/OK
[Tray 1]
```

7 **Press [OK].**

The following screen appears on the panel display.

```
Tray Priority:    ◆▶/OK
[Tray 1]
```

8 **Press the ◁ or ▷ key to select the tray type you want to use.**

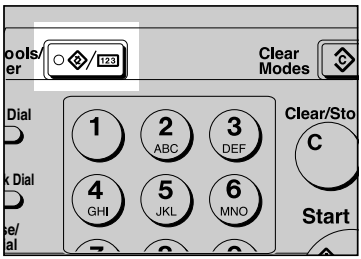
9 **Press [OK].**

"Programmed" is then displayed for two seconds.

10 **The following screen appears on the panel display.**

```
Paper Input:
1.Tray Priority      ◆▶
```

11 **Press [User Tools/Counter] to return to the initial display.**



Network Setup Menu

There are three menu items in the “Network Setup” menu.

- IP Address
- Subnet Mask
- Gateway Address

Note

❒ This “Network Setup” menu appears only when you are installing the optional Network Interface Board.

Network Setup Parameters

Menu	Description
IP Address	You can set the IP Address. **Note** ❒ Default: *All zero* **Reference** See *“Configuring the Printer for the Network with the Operation Panel”* in "Printer Reference 1".
Subnet Mask	You can set the Subnet Mask. **Note** ❒ Default: *255.000.000.000* **Reference** See *“Configuring the Printer for the Network with the Operation Panel”* in "Printer Reference 1".
Gateway Address	You can set the Gateway Address. **Note** ❒ Default: *All zero* **Reference** See *“Configuring the Printer for the Network with the Operation Panel”* in "Printer Reference 1".

Maintenance Menu

There are three menu items in the "Maintenance" menu.

- Restart Printer
- Menu Reset
- Hex Dump

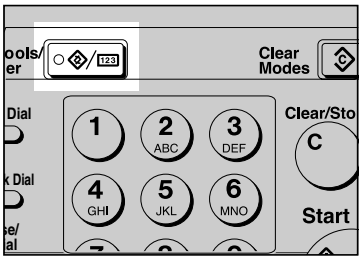
Maintenance Parameters

Menu	Description
Restart Printer	You can restart the printer. ⇒ P.33 *"Restarting a Printer"*
Menu Reset	You can reset the menu settings to the factory defaults except the optional Network Interface Board settings.
Hex Dump	You can set to isolate the source of a print job problem. With this function "On", all data sent to the printer is printed in hexadecimal character representation. • On • Off **Note** ❒ Default: *Off*

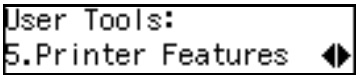
Restarting a Printer

The following procedure describes selecting the "Restart Printer" as an example in the "Maintenance" menu.

1 **Press 【User Tools/Counter】.**

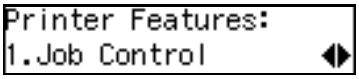


2 **Press the ◁ or ▷key until the following message appears on the panel display.**

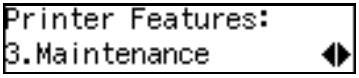


3 **Press [OK].**

The following screen appears on the panel display.

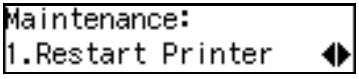


4 **Press the ◁ or ▷key until the following message appears on the panel display.**



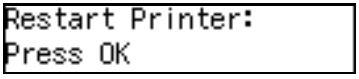
5 **Press [OK].**

The following screen appears on the panel display.



6 **Press [OK].**

The following screen appears on the panel display.



7 **Press [OK].**

A "Ready" message appears on the panel display.

List Print Menu

There are four menu items in the "List Print" menu.

- Configuration Page
- Menu List
- PCL Font List
- PS Font List

List Print Parameters

Menu	Description
Configuration Page	You can print a Configuration Page. ⇒ P.35 *"Printing a Configuration Page"*
Menu List	You can print the Menu List which shows the function menues of this machine.
PCL Font List	You can print a PCL Font List.
PS Font List	You can print a PS Font List.

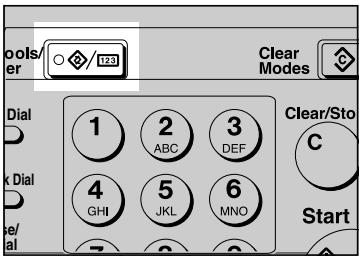
Printing a Configuration Page

The following procedure describes printing the "Configuration Page" as an example in the "List Print"menu.

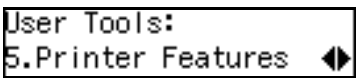
Reference

For more information, see P.37 *"Interpreting the Configuration Page"*.

1 **Press【User Tools/Counter】.**



2 **Press the ◀ or ▶key until the following message appears on the panel display.**



3 **Press [OK].**

The following screen appears on the panel display.

```
Printer Features:
1.Job Control      ◆▶
```

4 **Press the ◁ or ▷key until the following message appears on the panel display.**

```
Printer Features:
4.List Print       ◆▶
```

5 **Press [OK].**

The following screen appears on the panel display.

```
List Print:
1.Configuration Page◆▶
```

6 **Press [OK].**

The following screen appears on the panel display.

```
Configuration Page:
Press OK
```

7 **Press [OK].**

The following screen appears on the panel display.

```
Printing...
Configuration Page
```

In a short time, the printing a configuration page will start.

Important

❒ If you cannot complete printing a configuration page correctly, make sure an error message appears on the panel display. For more information about error messages, see P.19 *"Error & Status Messages on the Operation Panel"*.

Interpreting the Configuration Page

Reference

❖ **Printer ID**
Shows the serial number assigned to the board by its manufacturer.

❖ **Firmware Version**
Shows the version number of the printer firmware.

❖ **Pages Printed**
Shows the total number of pages printed by the printer to date.

❖ **Total Memory**
Shows the total amount of memory (SDRAM) installed on the printer.

❖ **Options**
Show the options that you installed.

Job Control

Shows the settings made under the "Job Control" menu.

Reference
For more information, see P.26 *"Job Control Menu"*.

Network Setup

Shows the settings you made under the "Network Setup" menu.

When DHCP is active on the network, the actual IP Address, Subnet Mask and Gateway Address appear in parentheses on the configuration page.

Reference
For more information, see P.32 *"Network Setup Menu"*.

Maintenance

Shows the settings you made under the "Maintenance".

Reference
For more information, see P.33 *"Maintenance Menu"*.

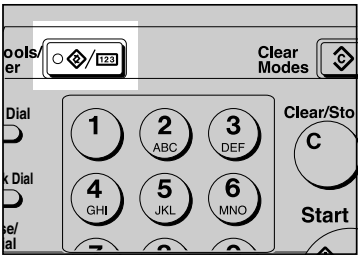
Error Log

Shows the log of printer errors.

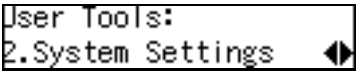
Adjusting System Settings

Accessing the System Settings

1 **Press【User Tools/Counter】.**

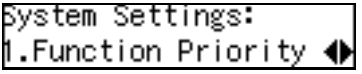


2 **Press the ◀ or ▶key to display "2.System Settings".**



3 **Press【OK】.**

The following screen appears on the panel display.



Select the desired menu you want to change.

4 **Change the settings by following the instructions on the panel display, then press【OK】.**

⇒ P.39 *"System Settings Parameters"*

Note

❒ Press the【**Language**】key to switch the display language.

Exiting from the User Tools/Counter

1 **Press【User Tools/Counter】.**

System Settings Parameters

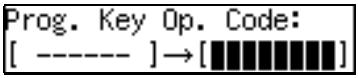
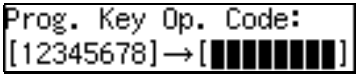
This section contains the information about the parameters used for the printer.

Reference

For more information about the other parameters in the System Settings menu, see the "System Settings" manual.

Menu	Description
1.Function Priority	You can specify the mode (Copier, Fax or Printer) to be displayed immediately after the operation switch is turned on or System Reset mode is turned on. **Note** ❒ Default: *Copier*
3.System Reset	The machine returns to its prioritized mode automatically after your job is finished, when you selected the time. This function is called "System Reset". The time can be set from 10 to 999 seconds, or no system reset. **Note** ❒ Default: On (*60 seconds*) ❒ You can specify the prioritized mode with the user tools. See "1.Function Priority".
6.Auto Off Timer	The machine turns itself off automatically to conserve energy after your job is finished, after the selected time. This function is called "Auto Off ". The time can be set from 1 to 240 minutes. **Note** ❒ Default: *30 minutes* ❒ Auto Off might not be effective when an error message is displayed. ❒ To return to the ready condition from Auto Off, the machine requires the same warm-up time as the time for becoming ready after power is turned on. ❒ When the machine receives a fax or printer data in Auto Off mode, it automatically prints the fax or the printer data.

Menu	Description
11Print Priority (setting the multi-accessing function)	Sets the print priority for each mode. • "Copier" Print priority is given to the copy function. • "Fax" Print priority is given to the fax function. • "Printer" Print priority is given to the printer function. • "Interleave" Prints jobs in the order in which they are initiated regardless of mode/function. • "Display" Print priority is given to the mode displayed on the display. **Note** ❒ Default: *Copier* **Reference** See *"Multi-access"* in the System Sttings manual.
13Key Operators Tools (13Key Op. Tools)	Used to view or print counters, and set up user codes. If you have registered the access code and set"3.Key Op. Access"to "On", you cannot use this function unless entering the correct code. **Reference** "4.Prog. Key Op. Code" and "3.Key Op. Access".
1.Show Counter	View counter values on the panel display. • Total Pages • Printer (for machines with optional printer function) • Copier • Fax (for machines with optional fax function) • A3 size • 2Sided Prints (Type 3 only)
2.Print Counter	Print counter lists. **Limitation** ❒ 15 ppm model requires the optional 16MB copier memory unit when using this function.
3 Key Operator Access (3.Key Op. Access)	Turn the key operator access code "On" or "Off". If you select "On", the registered access code is required for using all applications. **Note** ❒ Default: Off **Reference** See "4.Prog. Key Op. Code"

Menu	Description
4 Registering the key operator code (4.Prog. Key Op. Code)	Register or change the key operator access code (8 digits). • Register the access code Select this function and input your desired number (8 digits) with the number keys, then press the 【OK】 key.  • Change the access code When you select this function, the currently registered code is displayed on the left.  Enter the new code (8 digits) with the number keys, then press the 【OK】 key.
5.Restricted Access	Restrict user access for each mode (Copier, Fax or Printer) using optional key counter. **Note** ❒ Default: Off

5. Appendix

Specifications

This section contains the electrical and hardware specifications for the printer, including the information about the options.

Component	Specification
Resolution	300 × 300 dpi; PCL5e, PS2 [*1] 600 × 600 dpi; PCL5e, PCL6, PS2
Printing Speed	15ppm, 18ppm (A4 ▯, 8 1/2" × 11" ▯) **Note** ❒ Printing Speed depends on the machine. Confirm which type of machine you have.
Parallel Interface	Standard 36-pin printer cable and a parallel port on the host computer. IEEE1284 **Note** ❒ Do not use a parallel cable that is longer than 3 meters (10 feet).
Printer Language	PCL5e , PCL6 PS2 (option)
Fonts	**PCL5e, PCL6** 35 Intellifonts, 10 True Type fonts **PS2 (option)** 80 PS Resident fonts
Memory	**Standard :** 16MB **Optional SDRAM :** 32MB, 64MB, 128MB
Operation Systems supported by this printer	Windows 95 [*2] /98 [*3] /Me [*4] Windows 2000 [*5] Windows NT 4.0 [*6] Mac OS [*7]
Network	**Topology :** Ethernet 10BASE-T/100BASE-TX
	Protocol : TCP/IP, IPX/SPX, AppleTalk
Network Cable	10BASE-T/100BASE-TX interface cable with ferrite core.

[*1] PostScript level2 Compatible
[*2] Microsoft Windows 95 operating system
[*3] Microsoft Windows 98 operating system
[*4] Microsoft Windows Millennium Edition
[*5] Microsoft Windows 2000 Professional
Microsoft Windows 2000 Server
[*6] Microsoft Windows NT Server operating system version 4.0, Microsoft Windows NT Workstation operating system version 4.0 in a computer using x86 processors.
[*7] Required version is 8 or 9 operating system.

Options

Network Interface Board Type 1018

❖ **Topology:**
Ethernet (10BaseT/100BaseTX)

❖ **Protocols:**
TCP/IP, IPX/SPX, AppleTalk

❖ **Interface Connector:**
RJ45

❖ **Required Cable:**
Interface cable with ferrite core
*A cable is not provided with this option.

Memory Unit

❖ **Module Type:**
SO-DIMM (Small Outline Dual-in-line Memory Module)

❖ **Memory Type:**
SDRAM (Synchronous Dynamic RAM)

❖ **Number of Pins**
144 pins

❖ **Compatible:**
PC100 compatible

Type 1018 PostScript level2 Compatible Kit

PostScript level2 emulation.

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Note to users in the United States of America

Notice:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Warning

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Caution(in case of IEEE1284 environment) :

Properly shielded and grounded cables and connectors must be used for connections to host computer (and/or peripheral) in order to meet FCC emission limits.

Caution (in case of 100BaseTX environment):

Interface cable with ferrite core must be used for RF interference suppression.

Declaration of Conformity

Product Name: Printer Controller
Model Number: Type 1018
Responsible party: Ricoh Corporation
Address: 5 Dedrick Place, West Caldwell, NJ 07006
Telephone number: 973-882-2000
This device complies with part 15 of FCC Rules.
Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
2. this device must accept any interference received,

including interference that may cause undesired operation.

Note to users in Canada

Note:

This Class B digital apparatus complies with Canadian ICES-003.

Remarque concernant les utilisateurs au Canada

Avertissement:

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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